



Professional hair and scalp diagnostic software $TrichoSciencePro^{\texttt{©}}$

www.TrichoSciencePro.com



Professional hair and scalp diagnostic software TrichoSciencePro[©]



TrichoSciencePro ©

Professional hair and scalp diagnostic software

PRESENTATION

The latest program version of TrichoSciencePro © version 1.3SE was released in 2015 and has numerous important updates and additions in comparison to older TrichoScience © versions. The program incorporates some of the most relevant diagnostic and analytic studies in Trichology accumulated thus far. It also meets rapidly increasing demands for a single software source to perform and manage all typical clinical and non-clinical practice-associated activities. The program Trichoscopy, allows to run complete Phototrichogram, Trichogram, Dermatoscopy diagnostic studies. In addition, it offers modules to evaluate scalp pigmented lesions, perform global photograph studies, run fully automatic measurements and calculations, use specialty hair calculators, view previously held sessions, build analytic diagnostic session reports, get automatic conclusions and summaries, manage patient sessions, outpatient cards, scheduling, databases and much more.





TrichoSciencePro v1.3SE (Specia	l Edition)		
Patient's name	Date	Performed Trichoscopies:	Trichoscopy
Bob Johnson Magu Smuth	2/21/2013 4:24:50 PM 2/22/2013 10:21:15 AM	2/20/2013 10:11:05 AM+	
Delete	Del		Phototrichogram
Rename	F6	Load session Show rep	Trichogram
Find	Ctrl+F		Dermatoscopy
New patient	Ins	Performed Phototrichograms: 2/22/2013 10:21:15 AM+	
Outpatient card	F4		Hair Calculator
Additional information	F5		Hospital Anxiety and Depression Scale
Save patient list to MS W	/ord	Load session Show rep	Additional Studies
Save to file		Performed Trichograms:	
Download from file		2/20/2013 10:31:25 AM+	Express Trichoscopy
		Load session Show rep	lort
		Performed Dermatoscopies:	
		2/20/2013 10:41:35 AM+	Conclusions and Recommendations
			Automatic Conclusion
		Load session Show rep	Summary Report
		Performed Additional Studies:	
		2/20/2013 10:45:45 AM+	
			Set template for report
		Load session Show rep	Select video capture device
		Performed Conclusions and Recommendation	
		2/20/2013 10:50:05 AM+	
			Save archive copy of database
		Load session Show repo	Restore database from archive
		Add patient	
		Enter p	atient's name
			Racial variations of hair
New patient	Outpatient card	Sam Oth OF	European/Caucasian
Patient search by se	ession date:	Sex: OM OF	C Latin/Mediterranean
First date: 77	15		C Asian/Pacific C African/Caribbean
Last date: 7.7	15		
Search	All sessions	С	X Cancel

The program has convenient and user friendly interface. Program Manager module allows easy access to all program features. It enables to perform and control all new and previously held diagnostic sessions, manage patient's databases and much more.

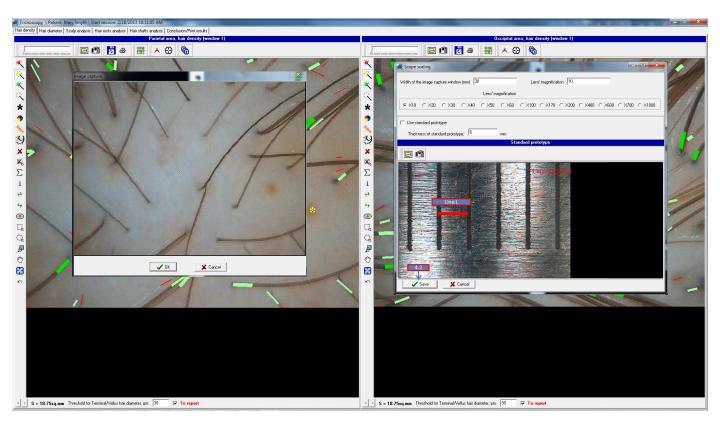


Professional hair and scalp diagnostic software $TrichoSciencePro^{^{\textcircled{o}}}$

Outpatient card \ Patient: Mary Smyth \ Start session: 2/22/2015						
Outpatient card Journal (course of disease, prescriptions, analysis)						
Date of visit: 2/22/2015 IS Patient's name: Mary Smyth	Profile picture					
Address:	Print					
Telephone:	To report					
Email:	Racial variations of hair					
Age: 30 m. cm. kq Sex: Female ft. 5 in. 5 lb BMI: 17.5	Additional information S. 105 C Latin/Mediterranean C Asian/Pacific C African/Caribbean Additional information Additional information					
Occupation or professional environment: Teacher	Setting the password for access to the information					
Referral from: Physician Complaints:	Password:					
Hair loss, dandruff, scalp sensitivity	Repeat password:					
Questionnaire						
Hair and scalp cond Onset of hair loss: 5 months Intensity of hair loss: C None C Moderate or slightly-expressed I Str						
Duration of hairloss: C Less than 6 months C Over 6 months C Over 6 months with periods of hair improvement and	volume restoration					
Hair thinning: C No C Yes C Frontal-parietal area is more affe	ected 🕞 Diffuse					
Female Pattern Baldı						
Ludwig Scale, type:	C III C Advanced C Frontal					
Ludwig Scale, class: •••••••••••••••••••••••••••••						
Heredity factor in other relatives: None						
Hair type: Hair form: Hair sort:						
Normal Straight Oily ✓ Wavy ✓ Mixed Curly Dry Chem.curl Extremely dry Chem.wave Damaged Chem.straight	 Normal ☑ Thin ☑ Wirly ☑ Long ☑ Brittle ☑ Split ends 					
Hair length and natural color: 16", brown	•					

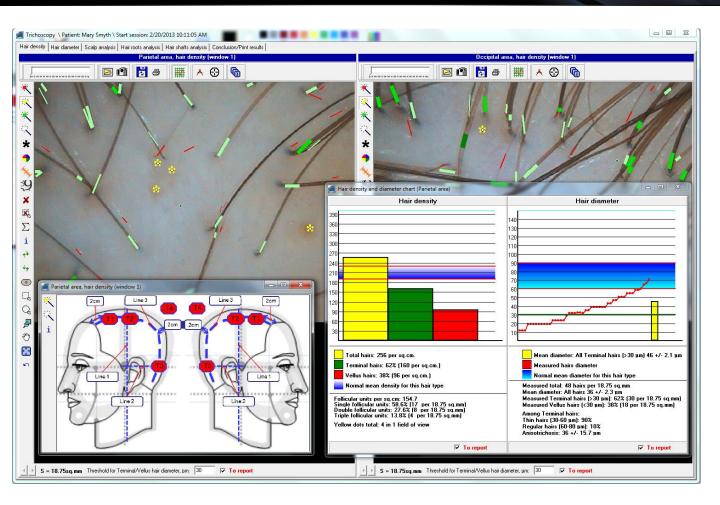
The "Oupatient card" for new patients entry is built to include a comprehensive list of features that should be considered in management of patients with hair and scalp diseases or disorders. The accuracy and extent of information supplied in the "Outpatient card", especially its "Questionnaire" section, affects objectivity of the "Automatic Conclusion" module.





The "Trichoscopy" module allows to estimate density and diameters of hairs in different zones of the scalp, as well as to access their distribution in the follicular units. Any values obtained can be compared to mean values All measured and calculated data to mean values based on patients racial hair variations. Measurements can be carried out in a semi-automatic or manual modes. There are also scalp, hair roots and shafts studies and analyses included.





The "Hair Density" section of "Trichoscopy" module allows for semiautomatic and manual hair density measurements simultaneously with hairs diameters estimates, as well as to access their distribution in the follicular units. Other functions include "Perifollicular sign" mark ups and counts ("Pointed hair", "Exclamation mark hair", "Broken hair", "Cadaverized hair", "Yellow dots", "Red dots" and "White dots"). "Hair length" function allows to perform linear length measurements of any growing hair within the site of view. "Point localization" function allows to mark up specific measurement points on the scalp diagram, where the hair counts have been performed. All collected information is being represented on charts in form of graphs and data, both obtained from measurements and calculations. This information is also being compared to mean values based on patients racial hair variations.



In addition to hair density and diameters evaluation, the severity of Anisotrichosis (or Polymorphism, that reflects the degree of deviation of hair diameters from norm), which is an important parameter that assesses progressive hair thinning, is taken into consideration along with percentages of Vellus hair less than 30 microns in diameter. This allows for a more comprehensive evaluation of the severity of ongoing pattern alopecia processes. In these cases it is also important that hair assessments are not limited to diameter estimates only, but include classification by type (i.e. thin, medium, and thick hair) along with calculations of the percentages for each of those types of hair. The resulting data is useful for assessing the current hair condition, as well as for the dynamic observation of patients during treatment or scientific studies. In each field of view, it is recommended to account for presence of various Perifollicular signs, such as "yellow dots" (reflect delays of new hair growth phases), "white dots" (reflect the presence of follicle fibrosis, typical for scarring forms of alopecia), "spiky hair" (reflect the intensity of hair loss), "red dots" (reflect vascular changes, typical for Psoriasis, Discoid Lupus), hair in the form of an "exclamation mark" and "black dots" (characteristic of Alopecia Areata). Below are sample images contrasting Female Pattern Hair Loss (FPHL) and stable condition:

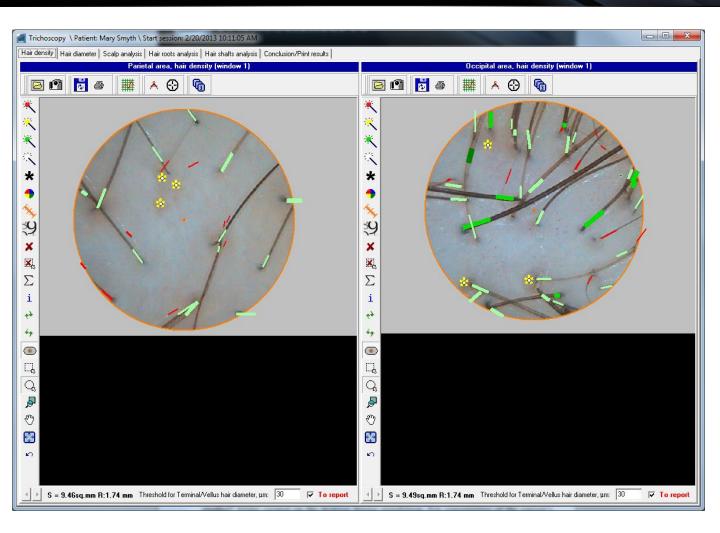
Signs of FPHL progression. Single units. Yellow dots. Anisotrichosis.



No signs of FPHL. Stable condition.

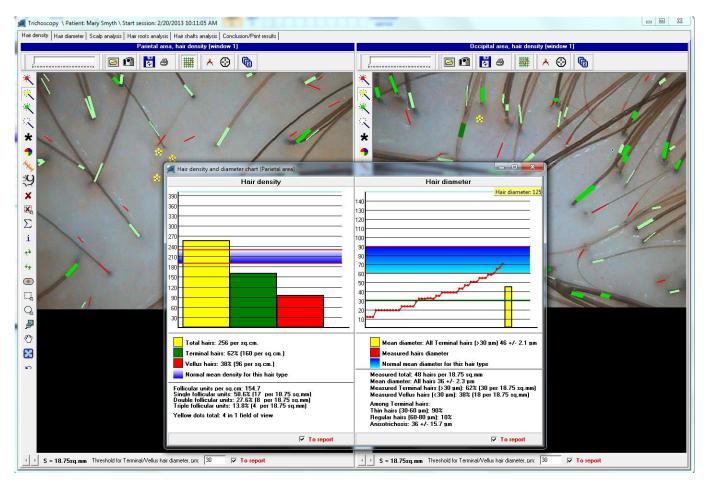






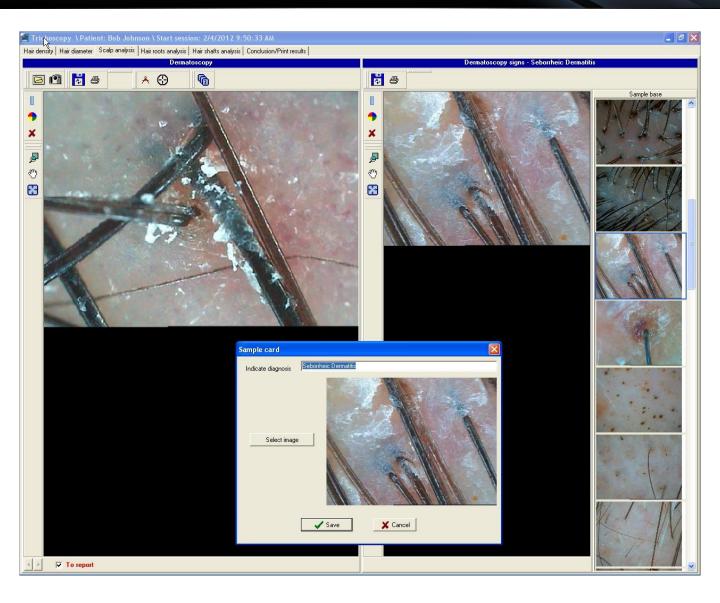
Trichoscopic assessment can be conducted in the circular fields of view, established per preset size. This is an important tool to be used in clinical trials or scientific researches, since this function allows to synchronize symmetric sites for evaluation, regardless of the angle used to obtain the images of study sites.





Hair diameter measurements and subsequent evaluation can be carried out under higher magnification, thus allowing for greater accuracy while obtaining data.





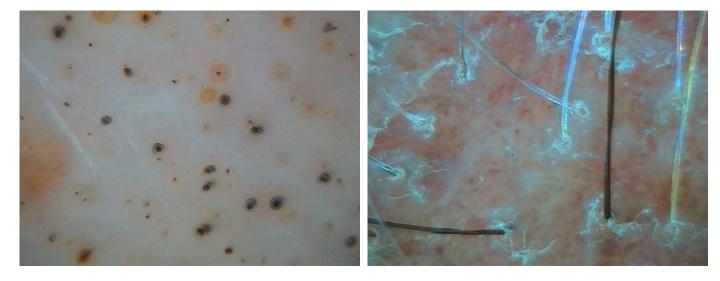
No less important is the proper assessment of the scalp condition. Detectable changes in the Perifollicular zone should be considered when selecting treatment for patients with alopecia or dermatosis signs.



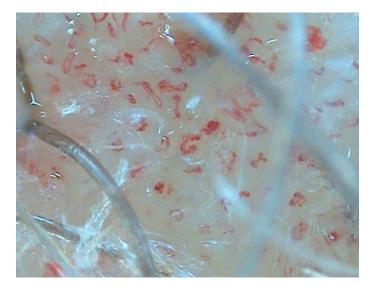
Below are the sample images showing in detail some alopecia and dermatoses sings :

"Black dots" and "yellow dots" typical for Alopecia Areata

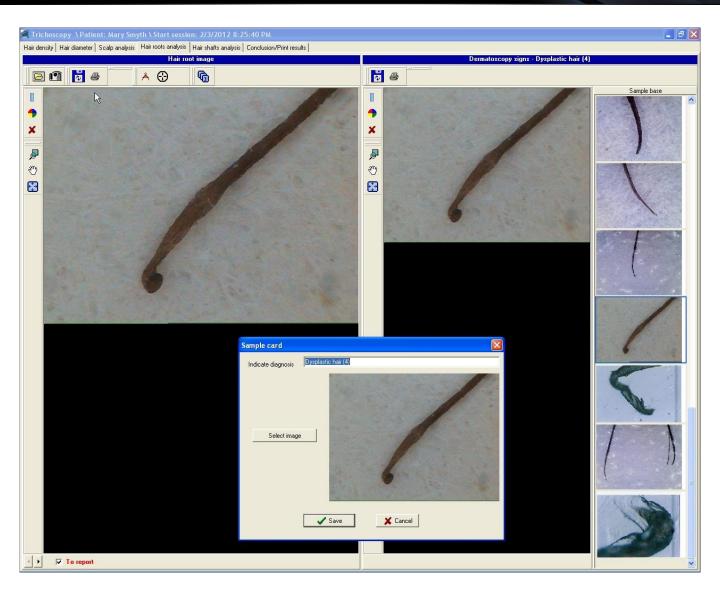
"White" dots typical for Lichen Planopilaris



"Red globular rings" typical for Psoriasis

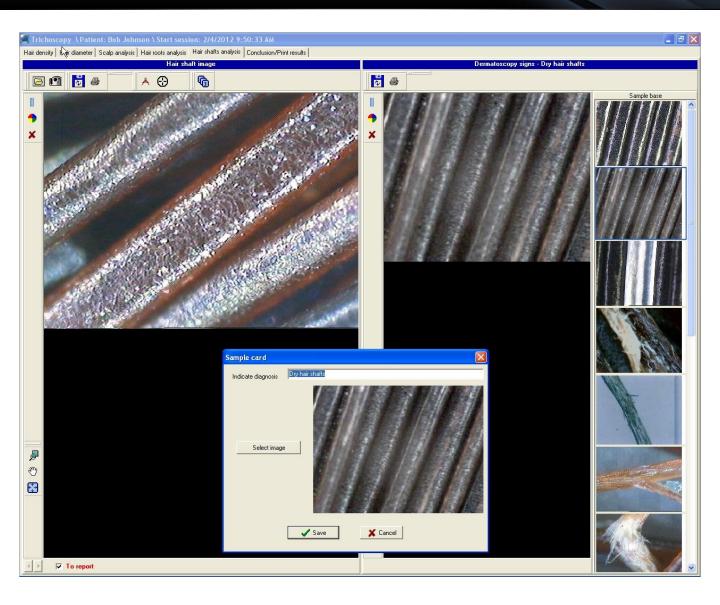






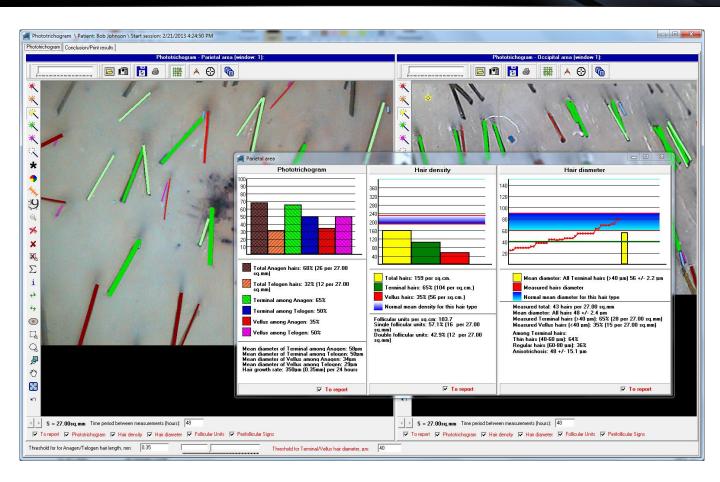
The proper microscopic evaluation of the extracted hair roots allows to quickly and accurately differentiate Anagen Alopecia from Telogen Alopecia. For example, presence of more than 80% of dystrophic hair roots in Anagen phase is the characteristic of Anagen Alopecia, which is associated with influence of toxic factors or autoimmune reactions. Dystrophic hairs have shattered bulb, conically narrowing shaft and no root sheath. In dysplastic hairs root bulb is deformed, reduced in diameter, root sheath is completely or partially absent. Dysplastic and dystrophic hairs are typically the signs of Alopecia Areata, however may also be present in hair loss induced by factors that affect hair follicle state at dermal papilla, such as effects of chemo- or radiation therapy, poisoning by salts of heavy metals, due to anticoagulant or interferon medication therapy, etc.





Microscopy of hair shafts allows to reveal various defects of hair keratinization that are hereditary in nature, as well as hair structural damages associated with improper care due to cumulative effects of physical, chemical and mechanical actions.





Currently, the Phototirchogram study is widely recognized and prevalent in clinical Trichology practice due to its high precision and affordability . For example, this methodology allows to distinguish subclinical forms of Female Pattern Hair Loss alopecia (FPHL) at early stages of disease, conduct differential diagnosis between androgenetic alopecia (AGA) and diffuse Chronic Telogen Effluvium alopecia (CTE), evaluate efficiency of alopecia dynamic treatment regimes, etc. The program calculates total number of hairs per square centimeter of skin, quantities and percentage of thick, regular and thin hairs, Terminal or Vellus hairs and Anagen or Telogen hairs among them. One of the most important diagnostic features is the predominance of Vellus hair in Telogen phase. The Phototrihogram study also allows to determine the average rate of hair growth.



The following significant features distinguish AGA from CTE in women in the early stages of hair loss development:

- In the early stages of AGA, despite the reduction in hair density in the Parietal area, the total quantity of hairs within the Parietal area remains higher than in the Occipital area. The average diameter of hairs in the Parietal area is also reduced, but there are no significant changes in diameters of the hairs in the Occipital area;

- With the AGA development, percentage of Vellus-like hairs averages to $20 \pm -3.9\%$, while it averages $12\pm -1.5\%$ in the control group. With appearance of the "yellow dots", indicating presence of empty follicles, the calculation of percentage of Vellus-like hair is considered impractical, as their quantity begins to decline;

- A pronounced condition of the Anisotrichosis is clearly applicable. When calculating the coefficient of the Anisotrichosis in the early stages of AGA, this value is greater than 12;

- There is an increase in the quantity of fine hairs (30-40 microns in diameter) in the Parietal area, as compared to the Occipital area;

- There is a reduction in the quantity of thick hairs (over 70 microns in diameter) in the Parietal area, as compared to the Occipital area;

- An increased percentage of single follicular units (up to 30%) in the Parietal area, as compared to the Occipital area;

- A significant increase in the percentage of Telogen hairs in the Parietal area, as compared to the Occipital area;

- Out of the total quantity of Telogen hairs more than 50% are Vellus-like hairs. It shall be noted that in the later stages of AGA the proportion of Vellus-like hairs in Telogen phase may decrease as empty follicles in form of "yellow dots" start to replace thinning hairs;

- Appearance of the "spiky hairs" indicates the intensity of hair loss, but does not reflect progressive hair thinning. The progressive thinning of hair is best reflected by the Anisotrichosis value and the proportion of Vellus-like hairs in Telogen phase.



Below are sample images of the Phototrichogram studies with tattoo application, showing the detectable contrast between "FPHL" and "CTE", as well as evaluation of the effectiveness of "AGA" treatment in dynamics.

Progressing "FHPL". Hairs in the Telogen phase are significantly thinner compared to hairs in the Anagen phase. Progressing "CTE". Telogen hair diameters do not differ from Anagen hair diameters.



Evaluation of efficiency of a non-specific dynamic treatment regime of "AGA".





Before treatment

After four months of treatment



🖉 Trichogram \Patient: Mary Smyth \ Start session: 04.02.2012 9:04:27									
Trichogram Conclusion/Print results									
Parietal area (window - 1):					Occipital are	a (window 1):			
		2 19	1	s 🔺 🕼					
		AD C	the last				t		t.
4 >	To report							V II	o report
and database	ichogram table	P	1		i	\bigcirc		~	×
	Epilated		Pa	ietal area			Oc	cipital area	
Sample card	hair	Absolute amount		%	Norm	Absolute amount		%	Norm
Sample title: Trichogram 1	Anagen	9	38	Total Anagen		4	27	Total Anagen	
	Displastic Anagen	5	21	63	To 95%	5	33	67	To 95%
	Broken Anagen	1	4			1	7		
Select image	Anagen with papilla	0		0	0%	0		0	0%
	Telogen	9		38	To 18%	5		33	To 18%
	Catagen	0		0	To 3%	0		0	To 3%
	Dystrophic	0		0	To 4%	0		0	To 4%
	Sum	24				15			
Save Cancel				× (Close				

The Trichogram study is a semi-invasive method used to evaluate the roots of extracted hairs . The hair roots are examined in order to determine and calculate percentages of hairs in each of three phases of the hair growth cycle (Anagen, Catagen, or Telogen). Anagen hairs usually have living cells on the root end and often a sheath of living cells around the lower hair fiber. Telogen hairs have a club end, they do not have any living cells attached to the root. Catagen hairs are more difficult to differentiate, but usually these hairs have a tapered end to the root. Extracted Anagen and Telogen hairs may sometimes be difficult to distinguish based on their microscopic appearance. Extracted hairs thickness can be measured to find out whether they are Terminal or Vellus hairs in order to determine association with pattern or chronic diffuse hair loss forms. After counting process completion all results are being recorded and evaluated in the "Trichogram table". There is a sample image database of hair roots included.



Eprimatoscopy \ Patient: Mary Smyth \ Start session: 2/4/2012 9:12:39 AM				_ 2 ×
General Dermatoscopy Pigmented lesions Conclusion/Print results				
Pigmented lesions		Pigmented lesions - Ne	vus Jadassohn	
i i Mesued length: 9.42 mm				Sample database
	Algorithm for melanoma and other tu	mor estimation by Argeniziano for melanoma and other tumor estimation	hu Argeniziano	<u> </u>
	Criteria	Features	Points	Mark if applicable
		Evolution of tumors		
	Atypical pigment grid	By color, wall thickness and cell size	2	Г
Sample card	A shroud or blue- w hite veil	Distinguish from dermatoscopic sings of pigment regression in skin lesion. Morphological substrate of a shroud or blue-white veil is represented by foci of acanthosis and hypergranulosis over the clusters of melanocytes in dermis.	2	
	Atypical vessels	Atypical convoluted linear and dotted vessels	2	
		Small criteria		
Select image	Atypical stripes	By color, shape and location	1	Г
	Dots/granules, unevenly distributed	By color and size	1	Γ
	Blots (ink stains)	Assymetric and atypical by color	1	Π
♥ Image: Save X Cancel	Dermatoscopic signs of pigment regression in skin lesion	Scar-like patches of depigmentation and dots, often described as "pepper-like" in pattern	1	
		Results		
✓ > S = 1871.91 sq.mm R:24.41 mm	Evaluation	of results X Close	1	I To report

The "Dermatoscopy" module allows to conduct general study and carry out pigmented lesion identification, measurement and determination of their boundaries symmetry. The data obtained can be evaluated based on well-known "ABC", "ABCD", "Argeniziano" algorithms. There is a dermatoscopic sample image database included.



P	atients:	Performed Trichoscopies:			
atient's name	Date	2/4/2012 9:50:33 AM+		Trichoscop	W .
ob Johnson Tary Smyth	2/4/2012 10:31:15 AM 2/4/2012 9:26:53 AM			Phototrichog	ram 🗍
		Load session Sho	report	Trichogram	n
				Dermatosco	Py I
(Performed Phototrichograms:	i II	Hair calcula	tor
Hair calculator \ Patie	nt: Bob Johnson		3	Hospital Anxiety and De	pression Scale
Terminal hair density in Pa	ietal area, sq.cm: total; %	151; 91		Additional stu	
Vellus hair density in Pariel	al area, sq.cm: total; 🗞	15; 9	port .	- Hadkionar ota	
Terminal hair density in Oc	cipital area, sq.cm: total; %	304; 74	Trichometry (hair wa	sh test) \ Patient: Bob J	Johnson 🛛
Vellus hair density in Occip	ital area, sq.cm: total; %	104; 26		. (I.). T	11 3
Terminal Telogen hair in P	arietal area:%	2.04		ate of hair sampling :	
Terminal Anagen hair in Pa	arietal area:%	57.14	Current mean hair length		
Vellus Telogen hair in Pari	etal area:%	10.20	H	Fill in "Hair quantity" column va	
Terminal Telogen hair in O	ccipital area:%	29	Hair length Under 3 cm:	Hair quantity	Percentage of hair
Terminal Anagen hair in Oo	cipital area:%	53.85	3-5 cm:		
Vellus Telogen hair in Occ	ipital area:%	21.15	Over 5 cm:		
Sex	Age:	Trichometry (hair wash test)	Total hair shedded:		
Racial variation	ns of hair				1 [
European/Caucasian	-	Trichometry (growing hair test)	Print report	Download into MS Wor	rd Close 🔽 To report
Total mean quantity of sca Total actual quantity of sc		100,000 (70,000-130,000) 111096 +/-11100	Trichometry (growing	g hair test) \ Patient: Bo	b Johnson 🛛 🔀
Total actual quantity of Te	erminal hair:	88064 +/-8800	Date	of hair sampling :	77 3
Total actual quantity of Ve Mean hair growth rate, mr		23032 +/-2300 0.3		Fill out "Hair total" column:	
Actual hair growth rate in Actual hair growth rate in		0.25 0.23	Hair length	Sotal amount	Intensity of monthly hair loss
Total mean daily rate of h	air loss:	166.65	Over 5 cm.long hair		
Total actual quantity of ha Total actual quantity of T	iir shed per 24hrs: erminal hair shed per 24hrs: amoui	212.61 nt; %: 169.30	4-5 cm.	-	
Total actual quantity of Ve	ellus hair shed per 24hrs: amount;	% 43.31	3-4 cm.	- (
-	1		2-3 cm.		
Print report	Download into MS Word	Close 🔽 To report	1-2 cm.		
			Total		
			Print report	Download into MS Wor	d Close 🔽 To report

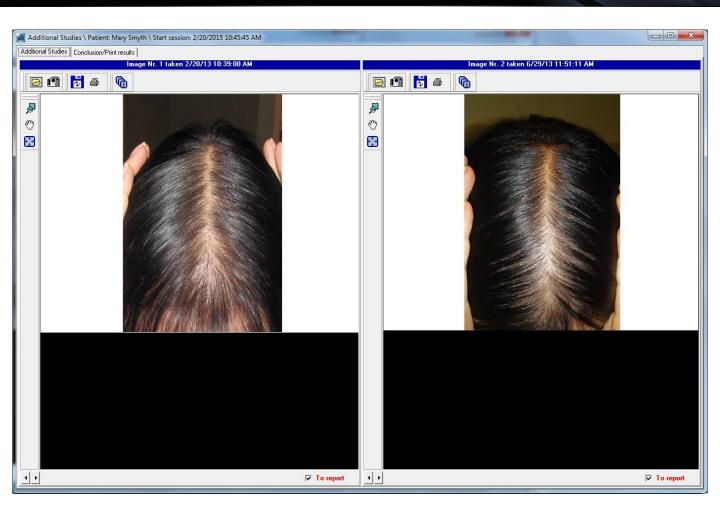
The "Hair calculator" module allows to calculate total quantity of scalp hairs, hair growth and hair loss rates, as well as to compare this data to average values based on patient's sex, age and racial hair variations, and much more. The module functions are set in automatic mode by default. The data is obtained from corresponding "Trichoscopy" and "Phototrichogram" sessions, as well as from the "Outpatient card". All the data that was obtained for calculations automatically may be modified or corrected at anytime by typing in new information. Furthermore, included are two additional calculators, representing "Trichometry "functions, based on hair wash test and growing hair test results.



🛃 TrichoSciencePr	o v1.1SE						- B ×
	Patient's name:		Performed Trichoscopies:		ſ	-	
Patient name	Date	2/3/2012 8:25:40 PM			Trichoscopy		
Bob Johnson Mary Smyth	2/4/2012 10:31:15 AM 2/4/2012 9:26:53 AM					Phototrichogram	
Hospital Anxiety a	nd Depression Scale \ Patient: Mar	y Smyth		×		Trichogram	
				1		Dermatoscopy	
	Hospital Anxiety and	d Depress	ion Scale			Hair calculator	
1. I feel tense or 'wo	ound up':		Most of the time	-		Hospital Anxiety and Depression Scale	
2. I still enjoy the thi	ings I used to enjoy:		Definitely as much	-	Automa	tic Conclusion \ Patient: Mary Smyth	×
3. I get a sort of frig	htened feeling as if something awful is about t	o happen:	Yes, but not too badly	-			
4. I can laugh and s	see the funny side of things:		Not quite so much now	•	Subc	linical depression. Clinical anxiety.	
5. Worrying though	ts go through my mind:		A lot of the time	•		Detailed rep	Close
6. I feel cheerful:			Not often	Datailad	report 1	Patient: Mary Smyth	
7. I can sit at ease	and feel relaxed:		Very often	Detailed	теротт у	Patient: Mary Smyth	
8. Ifeel as if Iam sh	owed down:		Sometimes			Hospital Anxiety and Depr	ession Scale
9. I get a sort of frig	htened feeling like "butterflies" in the stomach:		Occasionally				eenseleen an oor oo een al an oo al oo
10. I have lost inter	est in my appearance:		I don't take as much care as	1. I feel tense or 'wound up':		•	Most of the time
11. I feel restless as	s I have to be on the move:		Quite a lot	2. I still enjoy the things I used to enjoy:			Definitely as much
12. I look forward w	vith enjoyment to things:		Definitely less than I used to		3. I get a sort of frightened feeling as if something awful is about to happen: Yes, but not too badly		
13. I get sudden fee				I can laugh and see the funny side of things:			Not quite so much now
			Not very often	5. Worrying thoughts go through my mind:		ts go through my mind:	A lot of the time
14. I can enjoy a go	ood book or radio or TV program:		Not often	6. I feel cheerful:			Not often
				7. I can si	t at ease a	and feel relaxed:	Very often
				8. I feel a:	s if I am sl	owed down:	Sometimes
				9. I get a	sort of frig	htened feeling like 'butterflies' in the stomach	. Occasionally
	🗸 ок	X Cancel	Conclu	10. I have	lost inter	est in my appearance:	I don't take as much care as I should
				11. I feel:	restless as	I have to be on the move:	Quite a lot
				12. I look	forward	with enjoyment to things:	Definitely less than I used to
						lings of panic:	Not very often
				14. I can	enjoy a go	ood book or radio or TV program:	Not often
				Conclusio	n:		
				Subclinica	l depressi	on. Clinical anxiety.	
				Print :	eport	Download into MS Won Close	🔽 To report

The "Hospital Anxiety and Depression Scale" module is a useful tool for rapid assessment of patients emotional background . It is based on "Zigmond A., Snaith R., 1983" questionnaire. Assessment conclusions are generated automatically when all 14 multiple-choice questions are answered by patient.





While the "Additional Studies" module is intended to be used primarily for "Global photographs" study assessment for evaluation of treatment results and progress, any other diagnostic images, for example, any specific scalp area changes, etc., may be uploaded, compared and stored in the patient's file.



看 Conclusions and Recommendations \ Patient: Mary Smyth \ Start sessi	on: 2/4/2012 9:26:53 AM	
Search:		
Diagnosis: List of diagnoses Diagnostic tests Topical treatment Oral therapy Physiol	herapy Reference materials	
Hair growth assessment	Selected	
Videodermoscopy	Videodermoscopy Phototrichogram	
Dermatoscopy	Global Photographs Complete Blood Count (CBC)	
Classic Trichogram	Serum Ferritin	
Phototrichogram	Serum Iron Iron Saturation	
Conventional and contrast-enhanced Phototrichogram	Transferrin	
Unit Area Trichogram	Total iron binding capacity (TIBC) Total protein	
Hair pull test	Albumin	
Daily hair counts	Calcium, ionized Magnesium	
Hair Densitometry	Glucose, fasting (mg/dl)	
Standardized wash test, Hair Weighing	25-Hydroxyvitamin D [25(0H)D] Bilirubin, total	
60-second hair count	Bilirubin, Direct	
Global Photographs	Triglycerides Total Serum Cholesterol	
Hair Feathering test	HDL Cholesterol	
Hair Weighing	Add record	
Mechanical test of hair quality		
Optical light and polarizing microscopy		
Confocal laser scanning microscopy Add Ins	Add	
Iron status blood Delete record Del	C To the beginning Download image	
Complete Blood Count (CBC)	To current position	
Serum Ferritin	C To the end	
Serum Iron Detailed information		
V Delete information	☐ Section title	
Transferrin Move up Ctrl+U		
Total iron binding capacity (TIBC) Move down Ctrl+D		
Electrolytes and blood Download from file		
✓ Total protein	V DK X Cancel	
Albumin		
Globulin		
Albumin/Globulin ratio		
Calcium		
Calcium, ionized		
✓ Magnesium		
Potassium		
Sodium		
Glucose, fasting (mg/dl)		
Glucose (2 hours postprandial) (mg/dl)		
Hemoglobin A1c		
LDH (lactate dehydrogenase)		
□SGOT (AST)		
GGPT (ALT)		
Uric acid (male)		
Uric acid (female)		
Crantina Dhaanhalinaaa (CDK)		
Print report Download into MS Word		Close 🔽 To report

The "Conclusions and Recommendations" module is intended to record patient's diagnostic conclusions, results and applicable notes. It also offers extended listings of common diagnoses and additional diagnostic tests, as well as frequently used topical, oral and physical therapy products and practices.



Patient's name:	Performed Tr	ichoscopies:	
atient name Date	03.02.2012 20:25:40		Trichoscopy
b Johnson 04.02.2012 ary Smyth 04.02.2012			Phototrichogram
Automatic Conclusion \ Patient: Ma	ry Smyth		Trichogram
			Dermatoscopy
atient name: Mary Smyth			Hair calculator
,, j			Hospital Anxiety and Depression Scale
Criteria for differential diag	nosis of female pattern and diffuse telogen h	nair loss in women	Additional studies
Criteria	Female pattern alopecia	Telogen Diffuse Alopecia	a
	Clinical history		Express Trichoscopy
	Hair and scalp condition:		
Intensity of hair loss:	Moderate or slightly-expressed		Conclusions and Recommendations
Duration of hairloss:	Over 6 months		Automatic Conclusion
Hair thinning:	Frontal-parietal area is more affected	1	Summary report
	Female Pattern Baldness:		
Ludwig Scale, type:	I-2		Set template for report
Heredity factor in first degree relativ		No	=
Scalp condition:	Combination		=
Seborrheic dermatitis:	Areas of redness		Performed Conclusions and Recommendations:
	Data of Trichologic objective study		2.2012 9:26:53+
Trichoscopy Terminal hair count in parietal are	a Less than 250 for sq.cm.	Over 250 for sq.cm.	
Trichoscopy Average Terminal hair diameter witl Vellus hair accounted	out In parietal area is less than in occipita	In parietal area is more than in occipital	Load session Show report
Trichoscopy Percent of Vellus hair in parietal ar	ea More than 20%	Less than 20%	
Trichoscopy Anisotrichosis in parietal area	Over 12 for parietal area	Less than 12 for parietal area	
Trichoscopy Presence of thin, medium and thick in parietal area	nair Presence of all types	Presence of 2 types out of 3	
Trichoscopy Yellow dots Pointed hair (in parietal area)	Yellow dots applicable Presence of all types	No yellow dots. Pointed hair possible	-

The "Automatic Conclusion" function is implemented to differentiate between most common "AGA" and "CTE" diagnoses. Calculations are based on "Trichoscopy", "Phototrichogram", "Trichogram" session summaries and "Outpatient card" data. This information gets processed in a specialized table, which assigns and counts specific points. Total results obtained in this table indicate activity of each of these processes. Since signs of "AGA" and "CTE" often overlap, leading frequently to diagnostic difficulties, this function helps with more proper preventive diagnosis establishment.



Patien	t's name:	Performed Trichoscopies:	
Patient name ob Johnson	Date	2/3/2012 8:25:40 PM+	Trichoscopy
fary Smyth	2/4/2012 9:26:53 AM		Phototrichogram
		Load session Show report	Trichogram
		Performed Phototrichograms:	Dermatoscopy
		2/3/2012 9:04:39 PM+	Hair calculator
	Summary report	X	Hospital Anxiety and Depression Scale
		Select the components to report	Additional studies
New p	 Trichogram 		Express Trichoscopy
Outpatie	 Hospital Anxiety and Depr Dermatoscopy Automatic Conclusion Additional studies 	assion Scale	Conclusions and Recommendations
Patient search b	Hair calculator	100	Automatic Conclusion
First date: 7	Conclusions and Recomm	endations	Summary report
Search			Set template for report
Save archive c	2		
Restore databa	4		Performed Conclusions and Recommendations:
			/2012 9:26:53 AM+
Select video c	V V	OK 🛛 🗶 Cancel	

After completing all diagnostic sessions and studies, as well as generating conclusions and reports for the patient, the "Summary report" function allows to select components to be included into the final report, such as "Trichoscopy", "Phototrichogram", "Trichogram", "Dermatoscopy", "Hair calculator", "Hospital Anxiety and Depression Scale", "Additional Studies", "Conclusions and Recommendations" and "Automatic Conclusion" data. The "Summary report" is generated as an MS Word document, which is convenient for making any additional adjustments to the final data to be printed.



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